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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/701,433	11/29/2000	Kuniyuki Kajita	L9289.00121	9782
75	90 10/06/2004		EXAMINER	
Stevens Davis	Miller & Mosher	CHUNG, PHUNG M		
Suite 850				
1615 L Street NW			ART UNIT	PAPER NUMBER
Washington, DC 20036			2133	

DATE MAILED: 10/06/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)	R				
	09/701,433	KAJITA, KUNIYUKI					
Office Action Summary	Examiner	Art Unit					
	Phung My Chung	2133					
The MAILING DATE of this communication ap	opears on the cover sheet with	h the correspondence address	s				
A SHORTENED STATUTORY PERIOD FOR REP THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a re - If NO period for reply is specified above, the maximum statutory period. - Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the maili- earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply within the statutory minimum of thirty d will apply and will expire SIX (6) MONT the, cause the application to become ABA	oly be timely filed (30) days will be considered timely. HS from the mailing date of this commun NDONED (35 U.S.C. § 133).	ication.				
Status							
1) Responsive to communication(s) filed on							
	is action is non-final.						
3) Since this application is in condition for allow	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under	Ex parte Quayle, 1935 C.D.	11, 453 O.G. 213.					
Disposition of Claims							
4)⊠ Claim(s) <u>11-34</u> is/are pending in the applicati	on.						
4a) Of the above claim(s) is/are withdr							
5) Claim(s) is/are allowed.							
6) Claim(s) <u>11-19,21-31,33 and 34</u> is/are rejected	·						
7)⊠ Claim(s) <u>20 and 32</u> is/are objected to.							
8) Claim(s) are subject to restriction and	or election requirement.						
Application Papers							
9) The specification is objected to by the Examir	ner						
, , , , , , , , , , , , , , , , , , , ,		v the Examiner					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the corre		• •	121(4)				
11) The oath or declaration is objected to by the I	- · · · · · · · · · · · · · · · · · · ·		* *				
	Examinor. 140to the attached						
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreig	n priority under 35 U.S.C. §	119(a)-(d) or (f).					
a) ☐ All b) ☐ Some * c) ☐ None of:							
1. Certified copies of the priority docume	nts have been received.						
2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bure	au (PCT Rule 17.2(a)).	1					
* See the attached detailed Office action for a list	st of the certified copies not r	eceived.					
1		,					
Attachment(s)							
1) Notice of References Cited (PTO-892)		Immary (PTO-413)					
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) ☑ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0		/Mail Date formal Patent Application (PTO-152)	.				
Paper No(s)/Mail Date <u>5/21/04</u> .	6) Other:		,				
U.S. Patent and Trademark Office PTOL-326 (Rev. 1-04) Office	Action Summary	Part of Paper No./Mail Date 20	040904				

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1. Claims 14-18, 22, 26-30 and 34 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

As per claim 14, line 5, "... claim 22" is an improper claim because it cannot be dependent on a claim which appears after claim 14.

As per claim 15, line 2, "... claim 22" is an improper claim because it cannot be dependent on a claim which appears after claim 15.

As per claim 17, line 2 "... claim 22" is an improper claim because it cannot be dependent on a claim which appears after claim 17.

As per claims 16 and 18, these claims are also rejected because they dependent upon the rejected base claim.

As per claims 26, 27 and 29, these are improper claims because they cannot be dependent on claim 34 which appear after claims 26, 27 and 29.

Claims 28 and 30, these claims are also rejected because they dependent upon the rejected based claim.

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

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3. Claims 11 are rejected under 35 U.S.C. 102(e) as being anticipated by 3rd

Generation partnership Project herein after referred to as 3GPP (3G TS 25.212 V3.11, 1999).

As per claims 11, 13 and 21-22, 3GPP discloses the invention substantially as claimed, comprising: an interleaver that perform interleaving of input data including a plurality of bits;

A rate matcher that comprises a repeater and a puncturer, wherein the rate matcher alternatively selects between employing the repeater to repeat a part of the bits interleaved by the interleaver and employing the puncturer to puncture a part of the bits interleaved by the interleaver. (See pg. 15, section 4.2.3.2.3 to pg. 24).

As per claims 19, 23, 25, 31 and 33-34, these claims are also rejected under the same rationale as set forth in claims 11, 13 and 21-22.

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 12 and 24 are rejected under 35 U.S.C. 103(a) as being unpatentable over 3GPP as applied to claims 1 and 23 above, and further in view of Yi (5,978,365).
 As per claim 12, the teaching of 3GPP has been discussed above. They do not specifically disclose a coder for performing error correction coding. However, Yi discloses a coder for performing error correction coding. (See col. 6, lines 29-

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32). Therefore, it would have been obvious to a person of ordinary skill in the art, at the time the invention was made, to incorporate the error correction code as taught by Yi into the invention of 3GPP so that detected errors can be corrected. As per claim 24, this claim is also rejected under the same rationale as set forth in claim 12.

- 6. Claims 20 and 32 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 7. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Phung My Chung whose telephone number is 703-305-9686. The examiner can normally be reached on Monday to Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Albert Decady can be reached on 703-305-9595. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Phung Ny Chung Primary Patent Examiner